

Title (en)  
Drive circuit

Title (de)  
Treiberschaltung

Title (fr)  
Circuit de commande

Publication  
**EP 0939411 B1 20020123 (EN)**

Application  
**EP 99107969 A 19951013**

Priority  
• EP 95933550 A 19951013  
• GB 9420617 A 19941013

Abstract (en)  
[origin: WO9612098A1] A control valve (16) of an engine fuel system includes a valve member which is coupled to an armature (17) and is moved to engage a seating when a winding (18) is energised. The current flow in the winding is first allowed to rise to a peak value to initiate movement of the armature and valve member at which time the winding is disconnected from the supply. The decay of current in the winding is controlled using two rates of current decay to ensure that the valve member moves into engagement with the seating with the minimum of bounce.

IPC 1-7  
**F02D 41/20**; **F02D 41/24**; **H01H 47/04**

IPC 8 full level  
**F02D 41/20** (2006.01); **F02D 41/24** (2006.01); **H01H 47/04** (2006.01)

CPC (source: EP US)  
**F02D 41/20** (2013.01 - EP US); **F02D 41/2464** (2013.01 - EP US); **H01H 47/04** (2013.01 - EP US); **F02D 41/2432** (2013.01 - EP US);  
**F02D 2041/201** (2013.01 - EP US); **F02D 2041/2031** (2013.01 - EP US); **F02D 2041/2034** (2013.01 - EP US); **F02D 2041/2037** (2013.01 - EP US)

Cited by  
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Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 9612098 A1 19960425**; DE 69516546 D1 20000531; DE 69516546 T2 20001123; DE 69525185 D1 20020314; DE 69525185 T2 20020814;  
DE 69529352 D1 20030213; DE 69529352 T2 20030821; EP 0857251 A1 19980812; EP 0857251 B1 20000426; EP 0939411 A2 19990901;  
EP 0939411 A3 20000726; EP 0939411 B1 20020123; EP 0959238 A2 19991124; EP 0959238 A3 20010829; EP 0959238 B1 20030108;  
ES 2145923 T3 20000716; ES 2191379 T3 20030901; GB 9420617 D0 19941130; US 5959825 A 19990928

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US 81719697 A 19970529